# Use Attainability Analysis

for

WBID 0447 East Fork Big Creek

Submitted by Missouri Department of Natural Resources Staff

To Missouri Department of Natural Resources Water Protection Program

RECEIVED

Data Sheet A - Water Body Identification

2005 JUN 23 AM 7: 06

| FORTH PROTECTION PROGRAM  |
|---|
| Water Body Name:  |
| (from USGS 7.5' quad) EAST Fork Bug Creek   |
| 8-digit HUC: 10286101   |
| Missouri WBID#: Ough  |
| County: HAVEISON  |
| Upstream Legal Description:   |
| Downstream Legal Description:   |
| Upstream Coordinates:<br>(UGS 84, ddd.ddddd) 70, 57532 - 93, 92529 Dyn  |
| (UGS 84, ddd.ddddd) 70, 57532 -93, 97529 Pm<br>Downstream Coordinates:<br>(UGS 84, ddd.ddddd) 40, 37714 -93, 97288 -07m |
| Discharger Facility Name(s):  |
| Discharger Permit Number(s):  |
| Number of Sites Evaluated: 5  |
| Name of Surveyor and Telephone Number: Rechard Ducheow 573/751-7225   |
| Organization: DNR - WPP   |
| Position: STU Buologest   |
|   |
| the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA                   |
| tasheet is true and accurate.   |

| Signed: Durling | Date: | _6/22/05 |
|-----------------|-------|----------|
|                 |       |          |

Classified Waterbodies Roads Legend 0.45 East Fork Big Creek (C) #0447 Harrison County Part Two E 270 AVE E 270 AVE 0447-006 0447-007 0447-009

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

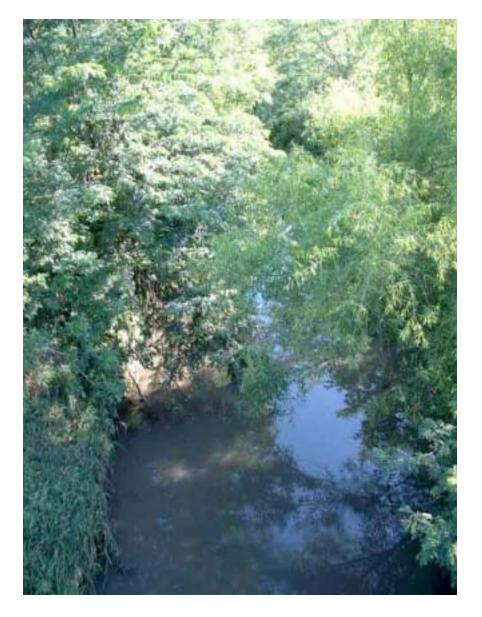
| Missouri WBID #: 0 4  | 17-001   |  | Site Location I   | Description:   |  |
|---|--|--|---|--|--|
| Site GPS Coordinates:   |  | 93.92529                                   | 1<br>1 ε 100 5τ   | (324th) BR   |  |
| Date & Time: 6/20/6   | 25 0505  |  | Facility Name   |  |  |
| Personnel:  |  | <del>, ,</del>                             | Permit Numbe  |  | ٠  |
| Current Weather Conditi   | ions: Þc.  |  | Weather Cond  | itions for Past 7 days: 🎗 🦡                              | W- CITAR 10 34 L                               |
| Photo Ids: Upstream:  | 20-0034 Dov  | vnstream:                                  | - eo 35 Oth   |  | 3  |
|   |  |  |   |  |  |
| ses Observed*:  | <del></del>  |  |   |  | <del></del>                                    |
|   | ☐ Skin diving  | □ SC                                       | UBA diving  | ☐ Tubing   | ☐ Water skiing                                 |
| ☐ Wind surfing  | ☐ Kayaking   | □ Boa                                      | ating   | □ Wading   | ☐ Rafting                                      |
| ☐ Hunting   | ☐ Trapping   | □ Fist                                     | hing  | ☑ None of the above                                      | ☐ Other:                                       |
|   | er of individuals red                                    | reaung, nedu                               | oney or and, proc                                       |  |  |
| arrounding Condition  |  |  |   | uses. Attach photos of evide                             |  |
| urrounding Condition  |  | promote or im                              |   |  |  |
| urrounding Condition  | ns*: (Mark all that                                      | promote or im                              | pede recreational                                       | uses. Attach photos of evide                             | nce or unusual                                 |
| urrounding Condition ems of interest.)  □ City/county parks                                   | ns*: (Mark ail that  □ Playgrounds                       | promote or im                              | pede recreational<br>nservation lands<br>forests        | uses. Attach photos of evide  Urban areas  Nature trails | nce or unusual  Campgrounds  Stairs/walkway    |
| urrounding Condition ons of interest.)  City/county parks  Boating accesses  No trespass sign | ns*: (Mark all that  □ Playgrounds □ State parks □ Fence | promote or im  MDC co                      | pede recreational<br>nservation lands<br>forests        | uses. Attach photos of evide                             | nce or unusual  Campgrounds  Stairs/walkway    |
| urrounding Condition ons of interest.)  City/county parks  Boating accesses                   | ns*: (Mark all that  □ Playgrounds □ State parks □ Fence | promote or im  MDC co  National            | pede recreational<br>nservation lands<br>forests        | uses. Attach photos of evide  Urban areas  Nature trails | nce or unusual  Campgrounds  Stairs/walkway    |
| urrounding Conditioners of interest.)  City/county parks  Boating accesses  No trespass sign  | ns*: (Mark ail that  □ Playgrounds □ State parks ☑ Fence | promote or im  MDC co  National  Steep slo | pede recreational<br>nservation lands<br>forests<br>pes | uses. Attach photos of evide  Urban areas  Nature trails | nce or unusual  ☐ Campgrounds ☐ Stairs/walkway |

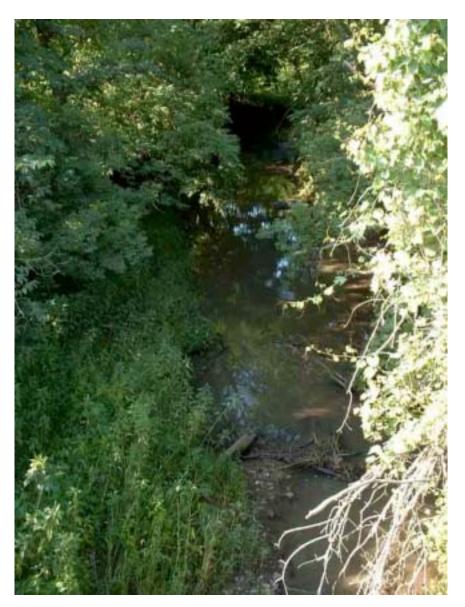
Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

# Page Two - Data Sheet B for WBID # 0447-001:

| □ Riffle Width   | (ft):  | Length (ft):  | Avg. De  | pth (ft):  | Max. Depth (f  | t):                |
|--|--|---|--|--|--|--------------------|
| □ Run Width  | (ft);  | Length (ft):  | Avg. De  | pth (ft):  | Max. Depth (f  | t):                |
| Pool Width   | (ft): 13'  | Length (ft): 30   | Avg. De  | pth (ft):  | Max. Depth (f  | t): a.oʻ           |
| Flow Presen  | ? ⊡Yes   | □ No  | Estimate   | ed (ft³/sec): 5-15   | ) c&s  |                    |
| Downstream Vi  | w Physical   | Dimensions:   |  |  |  |                    |
| □ Riffle Width   |  | Length (ft):  | Avg. De  | pth (ft):  | Max. Depth (f  | t):                |
| Run Width  | <del></del>  | Length (ft):  | Avg. De  |  | Max. Depth (f  | t):                |
| g∕Pool Width   | · · · · · · · · · · · · · · · · · · ·  | Length (ft):  | Avg. De  | pth (ft): O.3  | Max. Depth (f  | f): \.o'           |
| ☐Flow Preser   |  | □ No  |  | المورالم) الم  | ૦ લ્ફર   |                    |
|  | •  | "   |  |  |  |                    |
| bstrate*: (These   |  | add up to 100%.) 6 Gravel 50  | % Sand   | ao % Silt  | % Mud/Clay   | % Bedrock          |
|  |  | unt of vegetation or  | algal growth at the  | assessment site)   |  |                    |
| nter Characteri  | ities*: (Mark  | all that apply.)  |  |  | □ Other:   |                    |
| ater Characteri<br>Odor:   | stics*: (Mark  | all that apply.)  | ☐ Chemical   | None   | Other:   |                    |
| ater Characteri<br>Odor:<br>Color:   | stics*: (Mark    Sewage  | all that apply.) □ Musky □ Green  | ☐ Chemical   | ☑ None<br>□ Milky  | ☐ Other:   |                    |
| odor: Color: Bottom Deposit:   | stics*: (Mark  Sewage Clear Sludge   | all that apply )  Musky Green Solids  | ☐ Chemical ☐ Gray ☐ Fine sedime  | □ None □ Milky nts □ None  | ☐ Other:   |                    |
| ater Characteri<br>Odor:<br>Color:   | stics*: (Mark    Sewage  | all that apply.) □ Musky □ Green  | ☐ Chemical   | ☑ None<br>□ Milky  | ☐ Other:   |                    |
| Odor: Color: Bottom Deposit: Surface Deposit:  | Sewage Clear Sludge Oil  | all that apply.)  Musky Green Solids Scum   | ☐ Chemical ☐ Gray ☐ Fine sedime  | None  Milky  Ints None   | ☐ Other:   | orm.               |
| Ater Characteri Odor: Color: Bottom Deposit: Surface Deposit: mments: Please   | stics*: (Mark Sewage Clear Sludge Oil attach addit   | all that apply.)  Musky  Green  Solids  Scum  | ☐ Chemical ☐ Gray ☐ Fine sedime ☐ Foam (including inform recreational use details)                                   | None  Milky  Ints None  None  mation from intesignation but rath   | Other: Other: Other:   | re                 |
| Ater Characteri Odor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no   | stics*: (Mark  Sewage  Clear  Sludge  Oil  attach addit  | all that apply.)  Musky  Green  Solids  Scum  tional comments slely for removal of a  | ☐ Chemical ☐ Gray ☐ Fine sedime ☐ Foam (including inform a recreational use dequently, this inform                   | None    Milky   None   None   nation from intension is not intension.  | Other: Other: Other: terviews) to this fer is to provide a modeled to directly influence.  | re<br>nce a        |
| Ater Characteri Odor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no inprehensive undersition on the recreat | stics*: (Mark Sewage Clear Sludge Oil attach additatto be used so anding of wate on use analysis             | all that apply.)  Musky  Green  Solids  Scum  tional comments olely for removal of a creditions. Consess but may point to consess but may point to consess. | Chemical Gray Fine sedime Foam (including informateurity, this informations that need                                | None    Milky   Mone   None   Interest   None     Mone   None     Mone   None     Mone   None     Mone   None   None     Mone   None   None     Milky   Mone   None   None     Mone   Mone   None   None   None     Mone   Mone   None   None     Mone   None   None   None     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone     Mone   Mone   Mone     Mone | Other: Other: Other: cerviews) to this fer is to provide a more ded to directly influer that effect another us   | re<br>nce a<br>se. |
| Odor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no hiprehensive unders hision on the recreat               | stics*: (Mark  Sewage Clear Sludge Oil attach addit to be used so anding of wate on use analysi , hereby aff | all that apply.)  Musky Green Solids Scum tional comments olely for removal of a or conditions. Consess but may point to co                                 | Chemical Gray Fine sedime Foam (including informateurity, this informations that need                                | None    Milky   Mone   None   Interest   None     Mone   None     Mone   None     Mone   None     Mone   None   None     Mone   None   None     Milky   Mone   None   None     Mone   Mone   None   None   None     Mone   Mone   None   None     Mone   None   None   None     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone     Mone   Mone   Mone     Mone | Other: Other: Other: terviews) to this fer is to provide a modeled to directly influence.  | re<br>nce a<br>se. |
| Ater Characteri Odor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no inprehensive undersition on the recreat | stics*: (Mark  Sewage Clear Sludge Oil attach addit to be used so anding of wate on use analysi , hereby aff | all that apply.)  Musky Green Solids Scum tional comments olely for removal of a or conditions. Consess but may point to co                                 | Chemical Gray Fine sedime Foam  (including informational use of equently, this informations that need of my knowled) | None  Milky  Mis None  None  mation from intended in the signation but rath nation is not intendefurther analysis or ge, that all info   | Other: Other: Other: Other: erviews) to this fer is to provide a model to directly influer that effect another until the other undil the other | re<br>nce a<br>se. |
| Odor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no hiprehensive unders hision on the recreat               | stics*: (Mark  Sewage Clear Sludge Oil attach addit to be used so anding of wate on use analysi , hereby aff | all that apply.)  Musky Green Solids Scum tional comments olely for removal of a or conditions. Consess but may point to co                                 | Chemical Gray Fine sedime Foam  (including informational use of equently, this informations that need of my knowled) | None    Milky   Mone   None   Interest   None     Mone   None     Mone   None     Mone   None     Mone   None   None     Mone   None   None     Milky   Mone   None   None     Mone   Mone   None   None   None     Mone   Mone   None   None     Mone   None   None   None     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone   Mone     Mone   Mone     Mone   Mone   Mone     Mone | Other: Other: Other: Other: erviews) to this fer is to provide a model to directly influer that effect another until the other undil the other | re<br>nce a<br>se. |





#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| Missouri WBID #: OH   | 47-002   |                              | Site Location D  | escription:  |  |
|---|--|------------------------------|--|--|--|
| Site GPS Coordinates:   | 40.54044 -93   | 9<br>100                     | E 132 ST 1   | ЯE   |  |
| Date & Time: 6/30/  | 25 054   | 5 Wrs.                       | Facility Name:   |  | ·  |
| Personnel: 25   |  |                              | Permit Number  |  |  |
| Current Weather Condit  | ions: Char   |                              | Weather Condit   | tions for Past 7 days: Rays                              | - Cirus last hadan                             |
| Photo Ids: Upstream:  | 00-0036 Dow  | nstream: \                   | oce ∞ 3 Othe   |  |  |
| ses Observed*:  |  |                              |  |  |  |
|   | ☐ Skin diving  | s                            | CUBA diving  | ☐ Tubing   | ☐ Water skiing                                 |
| ☐ Wind surfing  | ☐ Kayaking   | . □ ₽                        | Boating  | ☐ Wading   | ☐ Rafting                                      |
| ☐ Hunting   | ☐ Trapping   | ΠЕ                           | ishing   | None of the above  | Other:   |
| Describe: (include numi   |  | , campy, ne                  | quality of the problem   |  | ,        |
| observed of the sound of the sound of the sounding Condition                                  | gas la constant de la |                              |  | uses, Attach photos of evide                             |  |
| OBSERVED START  | gas la constant de la | promote or                   |  |  |  |
| observed and the conditions of interest.)   | ns*: (Mark all that p  | promote or                   | impede recreational  | uses, Attach photos of evide                             | nce or unusual                                 |
| Surrounding Conditionems of interest.)  | ns*: (Mark all that p  | promote or                   | impede recreational<br>conservation lands<br>nal forests           | uses, Attach photos of evide  Urban areas  Nature trails | nce or unusual  Campgrounds  Stairs/walkway    |
| Surrounding Condition  ems of interest.)  City/county parks  Boating accesses                 | ns*: (Mark all that p  Playgrounds  State parks  | oromote or  MDC  Natior      | impede recreational<br>conservation lands<br>nal forests           | uses, Attach photos of evide                             | nce or unusual  Campgrounds  Stairs/walkway    |
| Surrounding Conditionems of interest.)  City/county parks  Boating accesses  No trespass sign | ns*: (Mark all that p  Playgrounds  State parks  | oromote or  MDC Nation Steep | impede recreational<br>conservation lands<br>nal forests           | uses, Attach photos of evide  Urban areas  Nature trails | nce or unusual  Campgrounds  Stairs/walkway    |
| Surrounding Conditions of interest.)  City/county parks  Boating accesses  No trespass sign   | ns*: (Mark all that p Playgrounds State parks Fence  | oromote or  MDC Nation Steep | impede recreational<br>conservation lands<br>nal forests<br>slopes | uses, Attach photos of evide  Urban areas  Nature trails | nce or unusual  ☐ Campgrounds ☐ Stairs/walkway |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

3

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

## Page Two - Data Sheet B for WBID # OUNT-002:

September 29, 2004

| ☐ Riffle   | Width (ft)  |  | Length (ft):   | i  | Avg. Depth (  | ft):  | Max. Depth   | (ft);                 |
|--|---|--|--|--|---|---|--|-----------------------|
| Run  | Width (ft)  |  | Length (ft):   | ı  | Avg. Depth (  | ft):  | Max. Depth   | (ft):                 |
| ⊡ Pool   | Width (ft)  | _as'   | Length (ft): 2   | 000 + '  | Avg. Depth (  | 'a.≀< :(ff  | Max. Depth   | 'ø,€ < :(fl)          |
| <b>♂</b> Flow  | Present?  | ☐ Yes  | <b>⊡</b> 1No   |  | Estimated (ft   | <sup>3</sup> /sec):   | ··   |                       |
| lownstres  | ım View   | Physical   | Dimensions:  |  |   |   |  |                       |
|  | Width (ft)  |  | Length (ft):   | -  | Avg. Depth (  | <b>(ft</b> ):   | Max. Depth   | (ft):                 |
|  | Width (ft)  |  | Length (ft):   |  | Avg. Depth (  | (ft):   | Max. Depth   | (ft):                 |
| ☑ Pool   | Width (ft)  | ์ อร'  | Length (ft): a   |  | Avg. Depth (  | (ft): \o'   | Max. Depth   | (ft): 3.c'            |
| ☑ Flow   | Present?  | ☐ Yes  | ⊒-′No  |  | Estimated (fi   |   |  |                       |
|  |   |  |  |  |   |   |  |                       |
|  | (These val<br>Cobble  |  | idd up to 100%.) Gravel 50   | % Sand   | 30  | % Silt  | 20, % Mud/Clay   | % Bedroc              |
| SLEGHT ONE   | gov.  |  | ant of vegetation or   | algai grow                                       | th at the asse  | ssment site)  |  |                       |
| Scherge Chara  | gov.  |  | ant of vegetation or   | algai grow                                       | th at the asse  |   |  |                       |
| ster Chara   | go <sup>yc</sup><br>acteristic  | s*: (Mark  |  | □ Che  | mical   | ☑ None  | ☐ Other:   |                       |
| eter Chara Odor: Color:  | acteristic  | s*: (Mark  | all that apply.)   | □ Che  | mical<br>y  | ☑ None  | ☐ Other:   |                       |
| ster Chara Odor: Color: Bottom Dep   | acteristic  | s*: (Mark  | all that apply.)<br>□ Musky  | □ Che  | mical   | □ None □ Milky □ None   |  |                       |
| eter Chara Odor: Color:  | acteristic  | s*: (Mark<br>] Sewage<br>] Clear   | all that apply.) □ Musky □' Green  | □ Che  | mical y sediments   | ☑ None  | ☐ Other:   |                       |
| odor: Color: Bottom Deportance De | posit: [  Please at on is not to understand                                 | s*: (Mark   Sewage   Clear   Sludge   Oil   ach addit   be used so ing of wate                             | all that apply.)  Musky Green Solids Soum ional comments lely for removal of renditions. Cons  | Che C Gra Fine Foa  (includin a recreatior       | mical y sediments m g informat al use designis informatic                           | None None None ration from ir   | Other: Other: Other: terviews) to this her is to provide a mided to directly influ                         | ore<br>ence a         |
| odor: Color: Bottom Deportance De | posit: [ posit: [ posit: [ posit: cunderstand recreation signed, h true and | s*: (Mark ] Sewage ] Clear ] Sludge ] Oil ach addit be used so ing of wate use analysis ereby aff accurate | all that apply.)  Musky Green Solids Soum ional comments lely for removal of r conditions. Consessibut may point to continuous to the best | Che Gra Foa (includin a recreatior equently, the | mical y sediments m g informat al use design is informationat need furth owledge, f | None None None None nation but rate in is not interner analysis of that all inf | Other: Other: Other: tterviews) to this ther is to provide a maded to directly influer that effect another | ore<br>ence a<br>use. |
| odor: Color: Bottom Dep Surface Dep mments: It   | posit: [ posit: [ posit: [ posit: cunderstand recreation signed, h true and | s*: (Mark ] Sewage ] Clear ] Sludge ] Oil ach addit be used so ing of wate use analysis ereby aff          | all that apply.)  Musky Green Solids Soum ional comments lely for removal of r conditions. Consessibut may point to continuous to the best | Che Gra Foa (includin a recreatior equently, the | mical y sediments m g informat al use design is informationat need furth owledge, f | None None None nation but rate is not interest analysis of                      | Other: Other: Other: tterviews) to this ther is to provide a maded to directly influer that effect another | ore<br>ence a<br>use. |

Page 19



0447\_002\_DS



#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|      | Missouri WBID#: 054       | 17-003                  |                | Site Location I          | Description:                  |                             |
|------|---------------------------|-------------------------|----------------|--------------------------|-------------------------------|-----------------------------|
|      | Site GPS Coordinates: H   | 0.52796 -93             | 80662          | E 130ty 5                | SIG 72                        |                             |
|      | Date & Time: 6/30/0       |                         |                | Facility Name:           |                               |                             |
|      | Personnel: 25             |                         |                | Permit Number            | T                             |                             |
|      | Current Weather Condition | ons: Cleur              |                | Weather Condi            | tions for Past 7 days: Rase   | - Clear last 6 days         |
| l    | Photo Ids: Upstream: 10   | O-OOBA Down             | istream:       | ე-იივ <mark>ო</mark> Oth |                               |                             |
| Use  | es Observed*:             |                         |                |                          |                               |                             |
|      | ☐ Swimming                | ☐ Skin diving           | □ sct          | ЉА diving                | ☐ Tubing                      | ☐ Water skiing              |
|      | ☐ Wind surfing            | ☐ Kayaking              | □ Boa          | ting                     | ☐ Wading                      | ☐ Rafting                   |
|      | ☐ Hunting                 |                         | □ Fish         | ing                      | ☑ None of the above           | Other:                      |
| 1    | Describe: (include numbe  | er of individuals recre | eating, freque | ency of use, photo       | o-documentation of evidence   | of recreational uses, etc.) |
| -    |                           |                         |                |                          |                               |                             |
|      |                           |                         |                |                          |                               |                             |
|      |                           |                         |                |                          |                               |                             |
|      |                           |                         |                |                          |                               |                             |
|      |                           |                         |                |                          |                               |                             |
| Ł    | <u>-</u>                  |                         |                |                          |                               |                             |
|      |                           | s*: (Mark all that pr   | omote or imp   | ede recreational         | uses. Attach photos of evider | nce or unusual              |
| item | is of interest.)          | <del></del>             |                |                          |                               | T                           |
| ļ    | ☐ City/county parks       | ☐ Playgrounds           | ☐ MDC cor      | servation lands          | ☐ Urban areas                 | ☐ Campgrounds               |
|      | ☐ Boating accesses        | C) State parks          | ☐ National     | forests                  | ☐ Nature trails               | ☐ Stairs/walkway            |
|      | ☐ No trespass sign        | ☐ Fence                 | ☐ Steep slop   | es                       | POther: Rwal-C                | ropland                     |
| Evi  | idence of Human Use       | e*:                     |                |                          |                               |                             |
|      | ☐ Roads                   | ☐ Foot paths/print      | ıs 🗆 D         | ock/platform             | ☐ Livestock Watering          | ☐ RV / ATV Tracks           |
|      | ☐ Rope swings             | ☐ Camping Sites         | -              | re pit/ring              | ☐ NPDES Discharge             | ☐ Fishing Tackle            |
|      | ☐ Other: N                | / <u>P</u>              |                |                          |                               |                             |
|      |                           |                         |                |                          |                               |                             |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

September 29, 2004 -

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## Page Two – Data Sheet B for WBID #\_ত্রব্যত্তই:

| spstream View  |   |   |  |  |   |              |
|--|---|---|--|--|---|--------------|
| ☐ Riffle Width   | <del>``.</del>  | Length (ft):  | Avg. Depth (   |  | Max. Depth (ft):  | <u> </u>     |
| Run Width  | (ft):   | Length (ft):  | Avg. Depth (   | ft):   | Max. Depth (ft):  |              |
| Pool Width   | (ft): 12'   | Length (ft):  | Noo+ Avg. Depth (  | ft): >1.0  | Max. Depth (ft):  | <u>'a,e'</u> |
| Presen   | it? 🔲 Yes   | 97No  | Estimated (fi  | 3/sec):  |   |              |
| Downstream Vi  | ew Physical   | Dimensions:   |  | _  |   |              |
| ☐ Riffle Width   | (ft):   | Length (ft):  | Avg. Depth (   | ft):   | Max. Depth (ft):  |              |
| □ Run Width  | (ft):   | Length (ft):  | Avg. Depth (   | ft):   | Max. Depth (ft):  |              |
| Pool Width   | (ft): Is'   | Length (ft): 3  | Avg. Depth (   | ft): >1.0  | Max. Depth (ft):  | a.5          |
| Flow Preser  | tt? ☐ Yes   | Ľ Ńo  | Estimated (fi  | ³/sec):  |   |              |
| ostrate*: (These   | veluer should   | add up to 100%  |  |  |   |              |
| % Cobb   |   | 6 Gravel So   | % Sand 30  | % Silt 2   | >> % Mud/Clay   | % Bedrock    |
| 5 35   | n*: (note amo   |   | algal growth at the asse   | ssment site)   |   |              |
| Ray John Lange   | stics*: (Mark   | ~<br>all that apply.)   |  |  | □ Other:  |              |
| expressive services of the contractors   | stics*: (Mark   | all that apply.) □ Musky  | ☐ Chemical   | None   | □ Other:  |              |
| ter Characteri<br>Odor:  | stics*: (Mark   | all that apply.) □ Musky ☑ Green  | □ Chemical ☑ Gray  | ☑ None ☐ Milky   | Other:  |              |
| nter Characteri<br>Odor:<br>Color:<br>Bottom Deposit;  | stics*: (Mark  Sewage  Clear  Sludge  | all that apply.)  ☐ Musky ☑ Green ☐ Solids  | ☐ Chemical  ☐ Gray ☐ Fine sediments  | ☑ None ☐ Milky ☐ None  | Other:  |              |
| ter Characteri<br>Odor:  | stics*: (Mark   | all that apply.) □ Musky ☑ Green  | □ Chemical ☑ Gray  | ☑ None ☐ Milky   | Other:  |              |
| nter Characteriodor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive undersision on the recreate  | stics*: (Mark  Sewage Clear Clear Coil attach addit to be used so anding of wate ion use analysis, hereby aff | all that apply.)  Musky Green Solids Scum ional comments lely for removal of a conditions. Conses but may point to continue to the best | ☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam (including informate a recreational use design equently, this information on ditions that need further than the conditions that need further   | None  Milky  None  None  nation from intenation but rather is not intended are analysis or the                       | Other: Other: Other: rviews) to this form. r is to provide a more d to directly influence a                         |              |
| nter Characterio Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is neprehensive understation on the recreate the understance of the unde | stics*: (Mark  Sewage Clear Clear Coil attach addit to be used so anding of wate ion use analysis, hereby aff | all that apply.)  Musky Green Solids Scum ional comments lely for removal of a conditions. Conses but may point to continue to the best | Chemical Gray Fine sediments Foam (including informate a recreational use design equently, this information on ditions that need furth of my knowledge, the party of my knowledge of m | None  None None None None None ion from intenation but rather is not intended ar analysis or the hat all information | Other: Other: Other: rviews) to this form. r is to provide a more d to directly influence a hat effect another use. |              |





### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| Missouri WBID#: 04  | 47-004   |                       | Site Location De  | escription:   |                                       |
|---|--|-----------------------|---|---|---------------------------------------|
| Site GPS Coordinates:   | 10.50055 -C                                      | 13.924                | 116 8 15074   | BR  |                                       |
| Date & Time: 6/2-0  |  |                       | Facility Name:  |   |                                       |
| Personnel:  | <u> </u>   |                       | Permit Number:  |   | ·                                     |
| Current Weather Conditi   | ons: Clear                                       |                       | Weather Conditi   | ons for Past 7 days: Russ                                 | - Clear last hada                     |
| Photo Ids: Upstream:  |  | nstream:              | 100-0041 Other  |   |                                       |
|   |  |                       |   |   | · · · · · · · · · · · · · · · · · · · |
| ses Observed*:  | <del></del>                                      | <del></del>           |   |   |                                       |
| Swimming  | ☐ Skin diving                                    |                       | SCUBA diving  | ☐ Tubing  | ☐ Water skiing                        |
| ☐ Wind surfing  | ☐ Kayaking                                       |                       | Boating   | ☐ Wading  | ☐ Rafting                             |
| ☐ Hunting   | ☐ Trapping                                       |                       | Fishing   | None of the above   | ☐ Other:                              |
| Calleta Landor Strate   | 20 00 00 00 00 00 00 00 00 00 00 00 00 0         |                       |   |   |                                       |
| urrounding Condition  |  |                       |   | documentation of evidence                                 |                                       |
|   |  | promote or            |   |   |                                       |
| urrounding Condition  | 98*: (Mark all that p                            | monte of              | r impede recreational u   | ises. Attach photos of evider                             | nce or unusual                        |
| currounding Condition<br>ems of interest.)  City/county parks                               | OS*: (Mark all that p                            | monte of              | r impede recreational u<br>C conservation lands<br>onal forests             | uses. Attach photos of eviden                             | C Campgrounds                         |
| urrounding Condition ems of interest.)  City/county parks Boating accesses                  | Playgrounds  ☐ Playgrounds ☐ State parks ☐ Fence | MDC □ Natio           | r impede recreational u<br>C conservation lands<br>onal forests             | uses. Attach photos of eviden  Urban areas  Nature trails | C Campgrounds                         |
| urrounding Condition ems of interest.)  City/county parks Boating accesses No trespass sign | Playgrounds  ☐ Playgrounds ☐ State parks ☐ Fence | □ MDC □ Natio         | r impede recreational u<br>C conservation lands<br>onal forests             | uses. Attach photos of eviden  Urban areas  Nature trails | C Campgrounds                         |
| urrounding Condition ems of interest.)  City/county parks Boating accesses No trespass sign | Playgrounds  ☐ Playgrounds ☐ State parks ☐ Fence | □ MDC □ Natio □ Steep | r impede recreational u<br>C conservation lands<br>onal forests<br>o slopes | □ Urban areas □ Nature trails □ Other: Rural - Re         | Campgrounds Campgrounds               |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

### Page Two - Data Sheet B for WBID # 0447-064:

| ☐ Riffle Width   | ft):   | Length (ft):  |   | Avg. Depth (1   | H):  |                                    | Max. Depth   | (ft):                 |              |
|--|--|---|---|---|--|------------------------------------|--|-----------------------|--------------|
| ⊠ Run Width  | ft): \a'   | Length (ft):  | 300+  | Avg. Depth (I   | it): 0.2'  |                                    | Max. Depth   | (ft): o               | π <u>5</u> ′ |
| □ Pool Width   | (ft):  | Length (ft):  |   | Avg. Depth (1   |  |                                    | Max. Depth   |                       | <u> </u>     |
| ☑ Flow Presen  | ? ErYes  | □ No  |   | Estimated (ft <sup>1</sup>  | /sec): 📜   | ئے د                               | <u> </u>   |                       |              |
| Downstream Vic   | w Dhysical   | Dimonsiones   |   |   |  |                                    |  |                       |              |
| Riffle Width   |  | Length (ft):  |   | Avg. Depth (  | řt):   |                                    | Max. Depth   | (ft):                 |              |
| Run Width  | (ft): 6'   | Length (ft):  | 130   | Avg. Depth (  | ft): 0.1   |                                    | Max. Depth   | (ft): c               | ٥, ك         |
| Pool Width   |  | Length (ft):  | 60'   | Avg. Depth (  |  |                                    | Max. Depth   |                       | 1.5"         |
| ☑ Flow Presen  |  | ☐ No  |   | Estimated (ft   | 1/   | -3 C                               | £ 3  |                       |              |
|  |  |   |   |   |  |                                    |  |                       |              |
| ostrate*: (These<br>% Cobbi  |  | add up to 100%.)<br>% Gravel 32   | s % Sano  | d 50  | % Silt   | 20                                 | % Mud/Clay   | <u> </u>              | % Bedrock    |
|  |  |   |   |   |  |                                    |  |                       |              |
| uatic Vegetation   | 1*: (note amo  | unt of vegetation   | or algal grov   | vth at the asse   | ssment site)   |                                    |  |                       |              |
| iter Characteri  |  |   |   |   |  | ·<br>                              |  |                       |              |
| 5 JEG OLDON  |  | all that apply.)  | □ Ch  | emical  | ☑ None   |                                    | □ Other:   |                       |              |
| SUFERICANO.  | tics*: (Mark   | all that apply.)  |   | emical  |  |                                    | Other:   |                       |              |
| ster Characteri  | tics*: (Mark   | all that apply.)  | □ ch<br>⊡ Gn  | emical  | ☐ None ☐ Milky ☐ None  |                                    |  |                       |              |
| nter Characteric<br>Odor:<br>Color:  | tics*: (Mark □ Sewage □ Clear  | all that apply.)  [] Musky  [] Green  | □ ch<br>⊡ Gn  | emical<br>ay<br>ne sediments  | ☑ None ☐ Milky   |                                    | ☐ Other:   |                       |              |
| nter Characteric<br>Odor:<br>Color:<br>Bottom Deposit:   | ctics*: (Mark  | all that apply.)    Musky   Green   Solids   Scum   tional commen   | ☐ Ch☐ ☐ For ☐ For ☐ For Its (including of a recreation insequently, the including its formula of a recreation in the including its formula of a recrea | emical ay ne sediments am ng informational use design   | □ None □ Milky □ None □ None con from ination but range is not inte  | ntervi                             | Other: Other: Other: to provide a modirectly influ   | ore<br>ence a         |              |
| nter Charactericodor: Color: Bottom Deposit: Surface Deposit: mments: Please   | ctics*: (Mark  Sewage  Clear  Sludge  Oil  attach addit to be used so anding of watton use analysis, hereby af | all that apply.)  Musky Green Solids Scum tional commentonal commentonal commentonal commentons. Cois but may point to the best | Che Growts (including a recreation assequently, to conditions   | emical ay ne sediments am ng informational use design his informatio that need furth              | □ None □ Milky □ None □ None ion from interest into the interest into the interest interest into the | nterviolather is ended to or that  | Other: Other: Other: to provide a modirectly influently | ore<br>ence a<br>use. |              |
| nter Charactericodor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no aprehensive underst ision on the recreate | ctics*: (Mark  Sewage  Clear  Sludge  Oil  attach addit to be used so anding of watton use analysis, hereby af | all that apply.)  Musky Green Solids Scum tional commentonal commentonal commentonal commentons. Cois but may point to the best | Che Growts (including a recreation assequently, to conditions   | emical ay ne sediments am ng informati onal use design his informatio that need furth nowledge, t | □ None □ Milky □ None □ None ion from interest into the interest into the interest interest into the | nterviolation is indeed to or that | Other: Other: Other: to provide a modirectly influently | ore<br>ence a<br>use. |              |



0447\_004\_DS



### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| Site Location Description:  Site GPS Coordinates: 40, 47854 - 93,94319  Date & Time: 4/2005 1035 hrs. Facility Name:  Personnel: Permit Number:  Current Weather Conditions: Class Weather Conditions for Past 7 days: Para - Class 193  Photo Ids: Upstream: 100 - 2042 Downstream: 100 - 0043 Other:  Uses Observed*:  Swimming Skin diving SCUBA diving Tubing Water skim Boating Water skim Briting Rafting  Hunting Trapping Fishing Wading Other:  Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses 1936 of 1945 (include number of recreational uses 1945). | g           |
|---|-------------|
| Date & Time:  | g           |
| Personnel:  Current Weather Conditions: Cltera  Photo Ids: Upstream: 100-0042 Downstream: 100-0043 Other:  Uses Observed*:  Swimming Skin diving SCUBA diving Tubing Wading Rafting  Hunting Trapping Fishing Wone of the above Other:  | g           |
| Photo Ids: Upstream: 100-2012   Downstream: 100-2013   Other:  Uses Observed*:  Swimming  | g           |
| Photo Ids: Upstream: 100-2012   Downstream: 100-2013   Other:  Uses Observed*:  Swimming  | g           |
| Uses Observed*:  Swimming Skin diving SCUBA diving Tubing Water skiin  Wind surfing Boating Wading Rafting  Hunting Trapping Fishing None of the above Other:   |             |
| □ Swimming       □ Skin diving       □ SCUBA diving       □ Tubing       □ Water skiin         □ Wind surfing       □ Kayaking       □ Boating       □ Wading       □ Rafting         □ Hunting       □ Trapping       □ Fishing       ☑ None of the above       □ Other:   |             |
| □ Wind surfing     □ Kayaking     □ Boating     □ Wading     □ Rafting       □ Hunting     □ Trapping     □ Fishing     ☑ None of the above     □ Other:  |             |
| ☐ Hunting ☐ Trapping ☐ Fishing ☐ None of the above ☐ Other:   | ses, etc.)  |
| E manage  | ses, etc.)  |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational u  | ses, etc.)  |
|   |             |
|   |             |
|   |             |
|   |             |
|   | <del></del> |
| Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual   |             |
| items of interest.)   |             |
| ☐ City/county parks ☐ Playgrounds ☐ MDC conservation lands ☐ Urban areas ☐ Campgrounds  | ıds         |
| ☐ Boating accesses ☐ State parks ☐ National forests ☐ Nature trails ☐ Stairs/walk   | way         |
| □ No trespass sign ☐ Fence ☐ Steep slopes ☐ Other: Rura 1 - Pasture land  |             |
| Evidence of Human Use*:   |             |
|   | Tracks      |
| ☑ Roads       ☐ Foot paths/prints       ☐ Dock/platform       ☐ Livestock Watering       ☐ RV / ATV         ☐ Rope swings       ☐ Camping Sites       ☐ Fire pit/ring       ☐ NPDES Discharge       ☐ Fishing Ta  | 110000      |
|   | واطه        |
| ☐ Other:  | ckle        |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

### Page Two - Data Sheet B for WBID # \_\_\_\_\_\_\_

| ☐ Riffle Width  | ı (ft):   | Length (ft):   | Avg, Depth (   | ft):   | Max. Depth (ft):   |                   |
|---|---|--|--|--|--|-------------------|
| ∏ Run Widtl   | ı (ft):   | Length (ft):   | Avg. Depth (   | ft):   | Max. Depth (ft):   |                   |
| ☑ Pool Width  | ı (ft): 😝 5 '   | Length (ft):   | පුර Avg. Depth (   | it): ०.ग   | Max. Depth (ft):   | 73.0 <sup>′</sup> |
| ☐ Flow Preser   |   | ⊒*No   | Estimated (ft  |  |  |                   |
|   |   |  | •  |  |  |                   |
| Downstream V<br>□ Riffle Width  |   | Length (ft):   | Avg. Depth (   | 'A):   | Max. Depth (ft):   |                   |
|   |   | Length (ft):   | Avg. Depth (   | ·  | Max, Depth (ft):   |                   |
|   | <del></del>   |  |  |  | Max. Depth (ft):   |                   |
|   |   | <u></u>  | 50' Avg. Depth ( Estimated (fi   |  | 1.11.11.2.1  | 7.3.0             |
| Flow Prese  | nt? 🗆 Yes   | Ø′No   | 3  | /-   |  |                   |
| ostrate*: (These<br>% Cobb  |   | % Gravel ao  | % Sand 30  | % Silt   | 50 % Mud/Clay  | % Bedroc          |
| uatic Vegetation  | on*: (note amo  | ount of vegetation or  | algal growth at the asse   | essment site)  |  |                   |
| RGUNT PRESSE  | istics*; (Mark  | ; all that apply.)   |  |  | □ Other:   |                   |
| nter Character Odor:  | istics*: (Mark  | ( all that apply.)  □ Musky  | ☐ Chemical   | ☑None  | ☐ Other:   |                   |
| nter Character Odor: Color:   | istics*: (Mark  | ( all that apply.) □ Musky □ Green   | □ Chemical ☑ Gray  | ⊠ None   | ☐ Other:   |                   |
| nter Character Odor:  | istics*: (Mark  | ( all that apply.)  □ Musky  | ☐ Chemical   | ☑None  | <del></del>  |                   |
| nter Character Odor: Color: Bottom Deposit: Surface Deposit: mments: Pleas his information is on prehensive under ision on the recrea | istics*: (Mark  Sewage  Clear  Sludge  Oil  e attach addition to be used settanding of wattion use analys  d, hereby af | Green  Solids Scum  Solids Creen Solids Comments Dely for removal of er conditions. Conseis but may point to c | ☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam  (including informate a recreational use designated a recreation of the formation of my knowledge, to the formation of the formation | ✓ None  ☐ Milky ☐ None ☐ None  I None  I not intended in its not | Other: Other: Other: tterviews) to this form ther is to provide a more added to directly influence or that effect another use. | <b>a</b>          |



0447\_005\_DS



#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| 1 274  | 147-00b                             |                               | Site Location D                         | escription:                                       |                                       |
|--|-------------------------------------|-------------------------------|---|---|---------------------------------------|
| Site GPS Coordinates:  | 40.46038 -93.                       | 94542                         | E 17575                                 | 57 BR   |                                       |
| Date & Time: 6/20/   | 05 1050 h                           |                               | Facility Name:                          |   |                                       |
| Personnel:   |                                     |                               | Permit Number                           |   |                                       |
| Current Weather Condit   | tions: Clrac                        |                               | Weather Condi                           | tions for Past 7 days: المعند                     | - Cleur lost haous                    |
| Photo Ids: Upstream:   | Down Down                           | mstream: voc                  | 0th                                     |   |                                       |
|  | <u> </u>                            |                               |   |   | · · · · · · · · · · · · · · · · · · · |
| Jses Observed*:  |                                     |                               |   | · · · · · · · · · · · · · · · · · · ·             |                                       |
| ☐ Swimming   | ☐ Skin diving                       | □ SC                          | UBA diving                              | ☐ Tubing  | ☐ Water skiing                        |
| ☐ Wind surfing   | ☐ Kayaking                          | □ Bo                          | ating                                   | □ Wading  | ☐ Rafting                             |
| ☐ Hunting  | ☐ Trapping                          | ☐ Fis                         | shing                                   | ☑ None of the above                               | □ Other:                              |
|  |                                     |                               |   |   |                                       |
| . •  | ns*: (Mark all that p               | promote or in                 | npede recreational                      | uses. Attach photos of evide                      | nce or unusual                        |
| Surrounding Condition tems of interest.)  □ City/county parks                                  | ons*: (Mark all that p              | Г                             | npede recreational                      | uses. Attach photos of evide                      | nce or unusual                        |
| tems of interest.)   |                                     | Г                             | onservation lands                       | · <del> </del>                                    | <del></del>                           |
| tems of interest.)  City/county parks  | ☐ Playgrounds                       | □ MDC ec                      | onservation lands                       | ☐ Urban areas                                     | ☐ Campgrounds ☐ Stairs/walkway        |
| tems of interest.)  City/county parks  Boating accesses  | ☐ Playgrounds ☐ State parks ☐ Fence | ☐ MDC co                      | onservation lands                       | ☐ Urban areas ☐ Nature trails                     | ☐ Campgrounds ☐ Stairs/walkway        |
| tems of interest.)  ☐ City/county parks ☐ Boating accesses ☐ No trespass sign                  | ☐ Playgrounds ☐ State parks ☐ Fence | ☐ MDC co                      | onservation lands                       | ☐ Urban areas ☐ Nature trails                     | ☐ Campgrounds ☐ Stairs/walkway        |
| tems of interest.)  City/county parks  Boating accesses  No trespass sign  Evidence of Human U | ☐ Playgrounds ☐ State parks ☐ Fence | ☐ MDC co ☐ Nationa ☐ Steep sl | onservation lands<br>il forests<br>opes | ☐ Urban areas ☐ Nature trails ☐ Other: Rural - De | ☐ Campgrounds ☐ Stairs/walkway        |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

September 29, 2004 -

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

### Page Two - Data Sheet B for WBID # 0447-906:

| J <b>pstream Vie</b><br>□ Riffle Wid   | th (ft):  | Length (ft):   | Avg. Depth (  | (ft):   | Max. Depth (ft):  |           |
|--|---|--|---|---|---|-----------|
|  | th (ft): 30'  | Length (ft):   |   | (Pt):   | Max. Depth (ft):  | on'       |
|  | th (ft): 15'  | Length (ft): 10  |   | 0, 4  | Max. Depth (ft):  | . a.e'    |
|  | ent? ⊡Yes   |  | Estimated (f  | 3, ,  | c-Ps  | . g,c     |
|  |   |  |   |   |   |           |
|  | view Physica<br>th (ft);  | Dimensions:  | Avg. Depth  | (6)-  | Max. Depth (ft):  |           |
| <del>Д. 1</del> С1.12  |   | Length (ft):   |   |   |   |           |
| 7.1.   | th (ft): 10°  | Length (ft):   | Avg. Depth  | ٠   | Max. Depth (ft):  | 0.5       |
|  | th (ft): no'  |  | Avg. Depth  |   | Max. Depth (ft):  | ን 3.0′    |
| Flow Pre   | ent? Yes  | □ No   | Estimated (f  | tr/sec): <  | 1 4.95  |           |
| strate*: (The  | se values should  | add up to 100%.)   |   |   |   |           |
| % Col  |   | % Gravel 50  | % Sand 3c   | % Silt  | ao% Mud/Clay  | % Bedrock |
| uatic Vegetal  | ion*: (note amo   | ount of vegetation or  | algal growth at the asse  | essment site)   |   |           |
| MI 3 CO OW   |   |  | algal growth at the asse  | essment site)   |   |           |
| Algha Cour   |   |  | algal growth at the asset   | essment site)   | □ Other:  |           |
| ter Characte   | ristics*; (Mar  | c all that apply.)   |   |   | □ Other:  |           |
| ter Characte Odor: Color:  | ristics*; (Marl<br>☐ Sewage<br>☐ Clear  | all that apply.)   | ☐ Chemical  | ☐ None  |   |           |
| nter Characte  | ristics*; (Mark   | c all that apply.)  ☐ Musky  ☐ Green   | □ Chemical<br>☑ Gray  | ☐ None  | ☐ Other:  |           |
| Atter Characte Odor: Color: Bottom Deposit Surface Deposit mments: Pleatis information is aprehensive under ision on the reconsition on the reconsition. | ristics*: (Mark  Sewage  Clear  Sludge  Oil  se attach addi not to be used serstanding of wat atton use analys  ed, hereby af | all that apply.)  Musky Green Solids Scum tional comments blely for removal of er conditions. Consist but may point to confirm to the best | ☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam  (including information a recreational use design equently, this information and the conditions that need further than the conditions that ne | ☐ None ☐ Milky ☐ None ☐ None tion from intended in the continuous intended in the continuous intended in the continuous | Other: Other: Other: terviews) to this formular is to provide a more led to directly influence                        | a         |
| der Characte Odor: Color: Bottom Deposit Surface Deposit mments: Plea is information is prehensive under sion on the recre the undersign                 | ristics*: (Mark  Sewage  Clear  Sludge  Oil  se attach addi not to be used serstanding of wat atton use analys  ed, hereby af | all that apply.)  Musky Green Solids Scum tional comments blely for removal of er conditions. Consist but may point to confirm to the best | ☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam  (including information a recreational use design equently, this information conditions that need further of my knowledge,  | ☐ None ☐ Milky ☐ None ☐ None tion from intended in the continuous intended in the continuous intended in the continuous | Other: Other: Other: terviews) to this former is to provide a more ded to directly influence that effect another use. | a         |



0447\_006\_DS



### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| Missouri WBID#:  | T00 - F                               |                  | Site Location                                       | n Description:                                |   |
|--|---------------------------------------|------------------|---|---|---|
| Site GPS Coordinates: 40   | 2.43225 -9:                           | 3,9599           | 56 E 195  | <u>™ 57 BR</u>                                |   |
| Date & Time: 6/20/0  | 5 1555                                |                  | Facility Nan  | ne:   |   |
| Personnel:   |                                       |                  | Permit Num  | · <del>-</del> ····                           |   |
| Current Weather Condition  | ns:                                   |                  | Weather Cor   | nditions for Past 7 days: 29                  | w - Cleur 195+ b deys   |
| Photo Ids: Upstream:   | Dov                                   | vnstream         | "100-0002 C   | Other:  |   |
| \∞<br>Uses Observed*:  | 0-0001                                |                  |   |   |   |
| ☐ Swimming   | ☐ Skin diving                         | C                | SCUBA diving  | ☐ Tubing                                      | ☐ Water skiing  |
| ☐ Wind surfing   | ☐ Kayaking                            |                  | 3 Boating   | ☐ Wading                                      | □ Rafting   |
| ☐ Hunting  | ☐ Trapping                            |                  | ☐ Fishing   | None of the above                             | ☐ Other:  |
|  |                                       |                  |   |   |   |
| Surrounding Condition items of interest.)  | S*: (Mark all that                    | promote          | or impede recreation                                | nal uses. Attach photos of ev                 | idence or unusual   |
| ,  | S*: (Mark all that                    | 1                | or impede recreation                                |   | idence or unusual   |
|  | · · · · · · · · · · · · · · · · · · · | _ п              | · · · · · · · · · · · · · · · · · · ·               |   | <u> </u>  |
| items of interest.)  □ City/county parks   | ☐ Playgrounds                         | ☐ MI             | OC conservation lan                                 | ds Urban areas                                | ☐ Campgrounds ☐ Stairs/walkway  |
| items of interest.)  ☐ City/county parks ☐ Boating accesses ☐ Wo trespass sign                   | ☐ Playgrounds ☐ State parks ☐ Fence   | ☐ MI             | OC conservation land                                | ds Urban areas  Nature trails                 | ☐ Campgrounds ☐ Stairs/walkway  |
| items of interest.)  ☐ City/county parks ☐ Boating accesses ☐ Wo trespass sign                   | ☐ Playgrounds ☐ State parks ☐ Fence   | ☐ MI ☐ Na        | OC conservation land                                | ds Urban areas  Nature trails                 | ☐ Campgrounds ☐ Stairs/walkway  [Ourslawer   Quad                                     |
| items of interest.)  City/county parks Boating accesses  No trespass sign  Evidence of Human Use | ☐ Playgrounds ☐ State parks ☐ Fence   | ☐ MI ☐ Nal ☐ Ste | OC conservation lan-<br>tional forests<br>ep slopes | ds Urban areas  Nature trails  Other: Thral - | ☐ Campgrounds ☐ Stairs/walkway  ☐ Stairs/walkway  ☐ PANTURE   Quad  ☐ RV / ATV Tracks |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

### Page Two - Data Sheet B for WBID # 0447 -007:

#### Stream Morphology: **Upstream View Physical Dimensions:** Width (ft): Avg. Depth (ft): Max. Depth (ft): Length (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): □ Run Avg. Depth (ft): >3.0 Max. Depth (ft): Width (ft): Length (ft): 3004 Pool [ Estimated (ft<sup>3</sup>/sec): ☑ Flow **⊡** No Present? ☐ Yes Downstream View Physical Dimensions: Max. Depth (ft): Width (ft): Avg. Depth (ft): Length (ft): Riffle Max. Depth (ft): Width (ft): Length (ft): Avg. Depth (ft): 🗆 Run Avg. Depth (ft): >2.0' Max. Depth (ft): Width (ft): Length (ft): >30' 3o' **⊈**′Pool Estimated (ft<sup>3</sup>/sec): ☐ Yes ☑ No Present? Substrate\*: (These values should add up to 100%.) % Cobble % Gravel 러스 % Sand % Silt % Mud/Clay % Bedrock Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site) Water Characteristics\*: (Mark all that apply.) Odor: ☐ Chemical ☑∕None □ Other: Sewage ☐ Musky Color: Gray ☐ Milky Other: ☐ Clear Green Bottom Deposit: Other: Fine sediments ☐ Sludge □ Solids None Surface Deposit: ☐ Other: None □ Foam □ Oil ☐ Seum Comments: Please attach additional comments (including information from interviews) to this form. \*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. Signed: Date: 6/20/05 Position: 57m Bolograt

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Organization: DNR - WPP







### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| Missouri WBID #:  | 800-7440 =                                       |   | Site Location                         | Description:                              |          |                                    |
|---|--|---|---------------------------------------|---|----------|------------------------------------|
| Site GPS Coordinates:   | 40.39501-93                                      | ها 5ها9.                                | E FREE7                               | SOM ARE BR                                |          |                                    |
| Date & Time: 6/80   | >/05 1625  |   | Facility Name                         | e;  |          |                                    |
| Personnel:  |  |   | Permit Numb                           | er:                                       |          |                                    |
| Current Weather Cond  | itions: Cleare                                   |   | Weather Con                           | ditions for Past 7 days:                  | الإختام  | - Cleme last beda                  |
| Photo Ids: Upstream:  | 100-0003 Dov                                     | vnstream: 100                           | 0-0004 0                              | ther:                                     |          |                                    |
| <del></del>   |  |   |                                       |   |          |                                    |
| Uses Observed*:   | <del></del>                                      | <u> </u>                                |                                       | <del></del>                               |          |                                    |
| Swimming  | Skin diving                                      |   | UBA diving                            | ☐ Tubing                                  |          | ☐ Water skiing                     |
| ☐ Wind surfing  | ☐ Kayaking                                       | □ Bo                                    | ating                                 | ☐ Wading                                  |          | ☐ Rafting                          |
| ☐ Hunting   | ☐ Trapping                                       | ☐ Fis                                   |                                       | None of the ab                            |          | Other: of recreational uses, etc.) |
|   |  |   |                                       |   |          |                                    |
| Surrounding Conditi   | ons*: (Mark all that                             | promote or in                           | npede recreation                      | al uses. Attach photos o                  | f evider | nce or unusual                     |
| Surrounding Condititems of interest.)   |  | 1                                       | npede recreation                      |   | f eviden | nce or unusual                     |
| tems of interest.)  | ons*: (Mark all that ☐ Playgrounds ☐ State parks | 1                                       | onservation land                      |   | f evider | 1                                  |
| tems of interest.)  City/county parks   | ☐ Playgrounds                                    | ☐ MDC ec                                | onservation land                      | s ☐ Urban areas ☐ Nature trails           |          | ☐ Campgrounds                      |
| ctems of interest.)  City/county parks  Boating accesses                          | ☐ Playgrounds ☐ State parks ☐ Fence              | ☐ MDC co                                | onservation land                      | s ☐ Urban areas ☐ Nature trails           |          | ☐ Campgrounds ☐ Stairs/walkway     |
| ltems of interest.)  City/county parks  Boating accesses  No trespass sign        | ☐ Playgrounds ☐ State parks ☐ Fence              | ☐ MDC co                                | onservation land                      | s ☐ Urban areas ☐ Nature trails           | \ - C+   | ☐ Campgrounds ☐ Stairs/walkway     |
| City/county parks     Boating accesses     No trespass sign     Evidence of Human | ☐ Playgrounds ☐ State parks ☐ Fence Use*:        | ☐ MDC ed ☐ Nationa ☐ Steep sle ints ☐ 1 | onservation land<br>I forests<br>opes | s Urban areas  Nature trails  Other: Ruca | tering   | ☐ Campgrounds ☐ Stairs/walkway     |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

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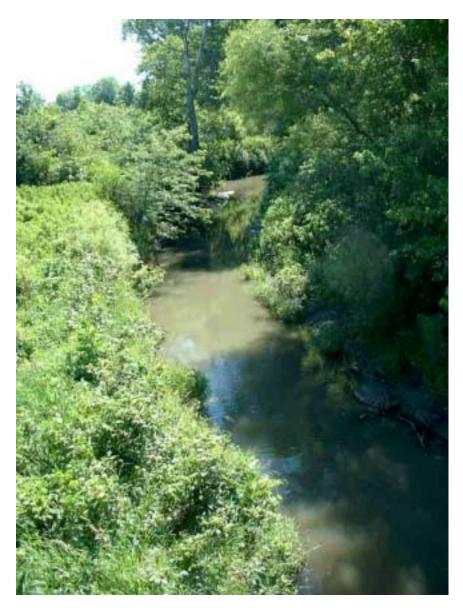
# Page Two - Data Sheet B for WBID # 0 447-008:

September 29, 2004

| ☐ Riffle Width  | (ft):  | Length (ft):  | Avg. Depth (   | ft):   | Max. Depth (ft  | ):                                     |
|---|--|---|--|--|---|--|
| G'Run Width   | (ft): 12'  | Length (ft): ve   | Avg. Depth (   | (ft): 0.1'_  | Max. Depth (ft  | ); o,3'                                |
| ☑ Pool Width  | (ft): 30 <sup>f</sup>  | Length (ft):  |  | (ft): 0.3'   | Max. Depth (ft  |  |
| ☐ Flow Present  | t? ☐ Yes   | □ No  | Estimated (ft  | 3/sec): \ \ e <sup>3</sup>   | ·\s   |  |
| Danmatusam Vi   | ny Physical  | Dimensional   |  |  |   |  |
| Downstream Vic<br>Riffle Width  |  | Length (ft):  | Avg. Depth (   | (ft):  | Max. Depth (ft  | ······································ |
| □ Run Width   | -  | Length (ft):  | Avg. Depth (   |  | Max, Depth (fi  | t):                                    |
| Pool Width  |  | Length (ft):  | Avg. Depth (   | (ft): 0.3  | Max. Depth (ft  | i): 1,0                                |
| Flow Presen   |  | □ No  | Estimated (fi  |  | `e  |  |
|   |  |   |  |  | ·   |  |
| bstrate*: (These<br>% Cobble  |  | idd up to 100%.) Gravel So  | % Sand 30  | % Silt   | 20 % Mud/Clay   | % Bedrock                              |
|   | -1   |   |  |  |   |  |
| otou Chanastori   | ution*s O feels  | all that analy \  |  | ·  |   |  |
| ater Characteris  |  |   | Chemical   | 7 None   |   |  |
| Odor:   | ☐ Sewage   | ☐ Musky   | ☐ Chemical   | ☑ None   | □ Other:  |  |
| Odor:<br>Color:   | □ Sewage ☑ Clear   | ☐ Musky<br>☐ Green  | ☐ Gray   | ☐ Milky  | Other:  |  |
| Odor:<br>Color:<br>Bottom Deposit.  | □ Sewage □ Clear □ Sludge  | ☐ Musky ☐ Green ☐ Solids  | ☐ Gray ☐ Fine sediments  | ☐ Milky ☐ None   | Other:  |  |
| Odor:<br>Color:   | □ Sewage ☑ Clear   | ☐ Musky<br>☐ Green  | ☐ Gray   | ☐ Milky  | Other:  |  |
| Odor: Color: Bottom Deposit: Surface Deposit:   | □ Sewage □ Clear □ Sludge □ Oil  | ☐ Musky ☐ Green ☐ Solids ☐ Scum   | ☐ Gray ☐ Fine sediments  | ☐ Milky ☐ None ☑ None  | ☐ Other: ☐ Other: ☐ Other:  | orm.                                   |
| Odor: Color: Bottom Deposit: Surface Deposit: omments: Please   | Sewage  Clear  Sludge  Oil  attach addition to be used so  | ☐ Musky ☐ Green ☐ Solids ☐ Scum ional comments  | ☐ Gray ☐ Fine sediments ☐ Foam (including informate a recreational use design  | ☐ Milky ☐ None ☐ None ☐ None  ion from in  | Other: Other: Other: thereis to provide a more  | re                                     |
| Odor: Color: Bottom Deposit: Surface Deposit: omments: Please his information is no morehensive underst   | Sewage  Clear  Sludge  Oil  attach addition to be used so anding of wate                             | ☐ Musky ☐ Green ☐ Solids ☐ Scum  ional comments lely for removal of a conditions. Conse   | Gray Fine sediments Foam (including informatic arecreational use designated), this informatic  | ☐ Milky ☐ None ☐ None ☐ None  ition from in nation but rate on is not inter                  | Other: Other: Other: thereis to provide a monded to directly influen                              | re<br>ce a                             |
| Odor: Color: Bottom Deposit: Surface Deposit: omments: Please his information is no imprehensive underst cision on the recreati                     | Sewage  Clear  Sludge  Oil  attach addition to be used so anding of wate on use analysis             | ☐ Musky ☐ Green ☐ Solids ☐ Scum  ional comments lely for removal of a conditions. Consess but may point to consess but may point to consess the conditions. | Gray Fine sediments Foam (including information arecreational use designmently, this information onditions that need further than the sed further than the s | ☐ Milky ☐ None ☐ None ☐ None  ition from in mation but rate on is not inter ther analysis of | Other: Other: Other: thereis to provide a more ded to directly influence that effect another us   | re<br>ce a<br>se.                      |
| Odor:  Color:  Bottom Deposit:  Surface Deposit:  omments: Please his information is no nprehensive underst cision on the recreati  the undersigned | Sewage  Clear  Sludge  Oil  attach addition to be used so anding of wate on use analysis, hereby aff | ☐ Musky ☐ Green ☐ Solids ☐ Scum  ional comments lely for removal of a conditions. Consess but may point to continue to the best                             | Gray Fine sediments Foam (including informatic arecreational use designated), this informatic  | ☐ Milky ☐ None ☐ None ☐ None  ition from in mation but rate on is not inter ther analysis of | Other: Other: Other: thereis to provide a more ded to directly influence that effect another us   | re<br>ce a<br>se.                      |
| Odor: Color: Bottom Deposit: Surface Deposit: omments: Please his information is no imprehensive underst cision on the recreati                     | Sewage  Clear  Sludge  Oil  attach addition to be used so anding of wate on use analysis, hereby aff | ☐ Musky ☐ Green ☐ Solids ☐ Scum  ional comments lely for removal of a conditions. Consess but may point to continue to the best                             | Gray Fine sediments Foam (including information arecreational use designmently, this information onditions that need further than the sed further than the s | ☐ Milky ☐ None ☐ None ☐ None  ition from in mation but rate on is not inter ther analysis of | Other: Other: Other: thereis to provide a more ded to directly influence that effect another us   | re<br>ce a<br>se.                      |
| Odor:  Color:  Bottom Deposit:  Surface Deposit:  omments: Please his information is no nprehensive underst cision on the recreati  the undersigned | Sewage  Clear  Sludge  Oil  attach addition to be used so anding of wate on use analysis, hereby aff | ☐ Musky ☐ Green ☐ Solids ☐ Scum  ional comments lely for removal of a conditions. Consess but may point to continue to the best                             | Gray Fine sediments Foam (including information arecreational use designmently, this information onditions that need further formy knowledge, the sediment of  | ☐ Milky ☐ None ☐ None ☐ None  ition from in mation but rate on is not inter ther analysis of | Other: Other: Other: thereis to provide a more anded to directly influency that effect another us | re<br>ce a<br>se.                      |

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#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| Missouri WBID#: 04  | 47-009                              |                                 | Site Location D                      | Description:                                       | '                              |
|---|-------------------------------------|---------------------------------|--------------------------------------|--|--------------------------------|
| Site GPS Coordinates:   | 40 (37764 - 93                      | .97 288                         | Husy A                               | 3.72   |                                |
| Date & Time: 6/20   |                                     | ) he5.                          | Facility Name:                       |  | ···                            |
| Personnel:  | 10 30                               |                                 | Permit Number                        | <del> </del>                                       |                                |
| Current Weather Condit  | ions: Clear                         |                                 | Weather Condi                        | tions for Past 7 days: Rasa                        | - Cleon lost lada              |
| Photo Ids: Upstream: 1  | 00-000 5 Dov                        | vnstream:                       | Oth                                  |  |                                |
|   |                                     |                                 |                                      |  | · ··                           |
| Uses Observed*:   | <del></del>                         | Ι.                              |                                      | <del></del>  | <u></u>                        |
| ☐ Swimming  | Skin diving                         | □ sc                            | UBA diving                           | ☐ Tubing   | ☐ Water skring                 |
| ☐ Wind surfing  | ☐ Kayaking                          | ☐ Bo                            | ating                                | ☐ Wading   | ☐ Rafting                      |
| ☐ Hunting   | Trapping                            | ☐ Fis.                          | •                                    | None of the above<br>o-documentation of evidence   | ☐ Other:                       |
|   |                                     |                                 |                                      |  |                                |
| Surrounding Condition   | ns*: (Mark all that                 | promote or im                   | spede recreational                   | uses. Attach photos of evide                       | nce or unusual                 |
| Surrounding Condition tems of interest.)                                      | ns*: (Mark all that                 |                                 | spede recreational                   | uses. Attach photos of evide                       | nce or unusual  Campgrounds    |
| tems of interest.)  | <del></del>                         |                                 | enservation lands                    | 1  |                                |
| tems of interest.)  □ City/county parks                                       | ☐ Playgrounds                       | ☐ MDC co                        | mservation lands<br>forests          | ☐ Urban areas                                      | ☐ Campgrounds ☐ Stairs/walkway |
| tems of interest.)  ☐ City/county parks ☐ Boating accesses ☐ No trespass sign | ☐ Playgrounds ☐ State parks ☐ Fence | ☐ MDC co                        | mservation lands<br>forests          | ☐ Urban areas                                      | ☐ Campgrounds ☐ Stairs/walkway |
| tems of interest.)  ☐ City/county parks ☐ Boating accesses ☐ No trespass sign | ☐ Playgrounds ☐ State parks ☐ Fence | ☐ MDC co ☐ National             | mservation lands<br>forests          | ☐ Urban areas                                      | ☐ Campgrounds ☐ Stairs/walkway |
| City/county parks   Boating accesses   No trespass sign                       | ☐ Playgrounds ☐ State parks ☐ Fence | ☐ MDC co ☐ National ☐ Steep slo | onservation lands<br>forests<br>opes | ☐ Urban areas ☐ Nature trails ☐ Other: ☐ Nature Co | □ Campgrounds □ Stairs/walkway |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

# Page Two – Data Sheet B for WBID #\_০ন-ব্য-০০ণ্ড

| ☐ Riffle Widtl  | n (ft):                               | Length (ft):   | Avg. Depth   | (ft):   | Max. Depth (ft):  |                  |
|---|---------------------------------------|--|--|---|---|------------------|
| □ Run Widt  | ı (ft):                               | Length (ft):   | Avg. Depth   | (ft):   | Max. Depth (ft):  |                  |
| © Pool Widtl  | 1(ft): 60°                            | Length (ft):   | 300 + Avg. Depth   | (ft): 🔒   | Max. Depth (ft):  | a.5'             |
| ☑ Flow Prese  | nt? ☑ Yes                             | □ No   | Estimated (  | ñ³/sec): 5 − 12   | o c f s   |                  |
| Nama da a da  | šami Dla                              | I Di   |  |   |   |                  |
| ownstream V<br>⊠Riffle Widt   |                                       | •  | Avg. Depth   | (ft): _ '   | Max. Depth (ft):  | o.4 <sup>1</sup> |
|   | a (ft):                               | Length (ft):   | Avg. Depth   | O. <u>c</u>   | Max. Depth (ft):  | <b>6</b> .4      |
|   | ı(ft): 45'                            |  |  |   | Max. Depth (ft):  | . '              |
| ☑ Flow Prese  |                                       | <u> </u>   | Avg. Depth<br>Estimated (  | <u>بري</u>  | -t2   |                  |
|   | ·                                     |  |  |   |   |                  |
| strate*: (Thes<br>% Cobb  |                                       | add up to 100%.) % Gravel 3.0  | % Sand   | 5 % Silt  | % Mud/Clay  | % Bedro          |
|   | or is                                 | % Gravel 3.0   |  | <del>-</del>  |   |                  |
|   | · · · · · · · · · · · · · · · · · · · |  | algal growth at the ass  | essment site)   |   |                  |
| iter Character  | istics*: (Mar)                        | ail that apply )   |  |   |   |                  |
| <b>ter Character</b><br>Odor:   | istics*: (Mar)<br>□ Sewage            | ail that apply.)   | ☐ Chemical   | ☑ None  | □ Other:  |                  |
| <b>ter Character</b><br>Odor:<br>Color:   | istics*; (Mar)                        | ail that apply )   |  |   | □ Other:  |                  |
| <b>ter Character</b><br>Odor:<br>Color:<br>Bottom D <del>e</del> posit:   | istics*: (Mar)<br>□ Sewage            | ail that apply.)   | ☐ Chemical   | ☑ None  |   |                  |
| ter Character<br>Odor:<br>Color:<br>Bottom Deposit:<br>Surface Deposit:   | istics*: (Mark                        | ail that apply.)  Musky Green Solids Scum  | ☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam  | ☑ None ☐ Milky ☐ None ☑ None  | ☐ Other: ☐ Other: ☐ Other:  |                  |
| der Character Odor: Color: Bottom Deposit: Surface Deposit: mments: Pleas is information is reprehensive underssion on the recrea | istics*: (Mark                        | Green Solids Scum tional comments blely for removal of er conditions. Consess but may point to c | Chemical Gray Fine sediments Foam (including informate a recreational use design equently, this informate onditions that need fur of my knowledge, | None  Milky  None  None  ition from integration but rathe on is not intendither analysis or | Other: Other: Other: orviews) to this former is to provide a more ed to directly influence that effect another use. | a                |



0447\_009\_DS

